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AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (previously presented) A method for detecting multidrug resistance or multidrug resistance potential in a test neoplastic cell, comprising:

a) measuring a level of cell surface-expressed HSC70 protein in the test neoplastic cell of a given origin or cell type; and

b) comparing the level of cell surface-expressed HSC70 protein in the test neoplastic cell to the level of cell surface-expressed HSC70 in a nonresistant neoplastic cell of the same origin or cell type,

wherein the test neoplastic cell is multidrug resistant or has multidrug resistance potential if the level of cell surface-expressed HSC70 in the test neoplastic cell is greater than the level of cell surface-expressed HSC70 in the nonresistant neoplastic cell of the same given origin or cell type.

2. (previously presented) The method of claim 1, wherein measuring the level of cell surface-expressed HSC70 in the test neoplastic cell comprises isolating a cytoplasmic membrane fraction from the cell and measuring the level of HSC70 in the cytoplasmic membrane fraction.

3. (previously presented) The method of claim 1, wherein measuring the level of cell surface-expressed HSC70 in the test neoplastic cell comprises contacting said cell with an anti-HSC70 antibody and measuring the level of antibody bound to cell surface HSC70.

4. (previously presented) The method of claim 3, wherein measuring the level of antibody bound to cell surface HSC70 is by immunofluorescence emission.

5. (previously presented) The method of claim 3, wherein measuring the level of antibody bound to cell surface HSC70 is by radiolabel.

6. (previously presented) The method of claim 1, wherein the test neoplastic cell is selected from the group consisting of a promyelocytic leukemia cell, a T lymphoblastoid cell, a breast epithelial cell, and an ovarian cell.

7. (previously presented) The method of claim 1, wherein the nonresistant neoplastic cell is from a drug-sensitive cell line selected from the group consisting of HL60, NB4, CEM, HSB2 Molt4, MCF-7, MDA, SKOV-3, and 2008.

8. (previously presented) The method of claim 1, wherein the test neoplastic cell is selected from the group consisting of a lymphoma cell, a melanoma cell, a sarcoma cell, a leukemia cell, a retinoblastoma cell, a hepatoma cell, a myeloma cell, a glioma cell, a mesothelioma cell, and a carcinoma cell.

9. (previously presented) The method of claim 1, wherein the test neoplastic cell is from a tissue selected from the group consisting of blood, bone marrow, spleen, lymph node, liver, thymus, kidney, brain, skin, gastrointestinal tract, eye, breast, prostate, and ovary.

10.-108. (cancelled).